



**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL WEATHER SERVICE  
Silver Spring, Md. 20910

MEMORANDUM FOR: All NWS Regional Headquarters, Regional  
Maintenance Specialists, Electronic Systems  
Analysts, and Electronics Technicians [Engineering  
Handbook (EHB)-13, Series II distribution]

FROM: W/OPS1 - John McNulty

SUBJECT: Transmittal Memorandum for EHB-13, Series II,  
Issuance 01-04

1. Material Transmitted:

Advanced Weather Interactive Processing System (AWIPS), section 3.3, AWIPS Software Patch Modification Note 16, New WWA 5.0 executables.

2. Summary:

AWIPS Software Patch Modification Note 16, provides installation instructions for a software patch that will correct problems identified with the R5.0 WWA software. File this note in EHB-13, Series II, section 3.3.

3. Effect on Other Instructions:

None.



AWIPS SOFTWARE PATCH MODIFICATION NOTE 16 (for Electronic Systems Analysts)  
Maintenance, Logistics & Acquisition Division  
W/OST: BP/KS  
W/OPS1: FJZ

- SUBJECT** : New WWA 5.0 executables
- PURPOSE** : Corrects problems identified with R5.0 WWA software.
- PATCH NUMBER** : Patch number: P50\_MDL\_A100102
- AUTHORIZATION** : The authority for this patch modification note is Request for Change NWS 668.
- AFFECTED SITES** : After sites upgrade to R5.0, any R5.0 WFOs or other sites that use WWA must install this patch. **Note:** This patch supercedes all previous WWA patches.
- VERIFICATION STATEMENT** : These patch and installation procedures were tested and verified at National Weather Service Headquarters, Silver Spring, MD (NMTW), and at the Columbia, SC (CAE), Cleveland, OH (CLE), and Mount Holly, NJ (PHI) WFOs.
- REINSTALLATION REQUIREMENTS** : Not required.
- INSTALLATION TIME:** Approximately 5 minutes.
- SECURITY LEVEL** : root
- TECHNICAL SUPPORT** : For questions or problems regarding these installation instructions or running the wwa program, please contact Brian Papa of the AWIPS Site Support Team at (301) 713-0920 ext 120.

#### GENERAL

The Meteorological Development Laboratory (MDL) has identified several problems/issues with the WWA software in R5.0. As a result, new versions of "wwa", "wwaReceive", "wwa\_nwr", "wwainj", and "wafd" have been developed. The corrected problems are as follows:

<b>NOTE:</b> Sites must install this patch immediately after installing AWIPS Build 5.0
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**wwa**

- C Updated to correct mouseclick sequences that cause wwa to unexpectedly exit.
- C Properly formats all cleared segments before any other segment.
- C "Round" and "interval" affect output product when used in template files.
- C Correctly deletes products from the wwa database when they expire.
- C The beginning time within the VTEC string is set to 000000 for follow-up/clear/cancel products.

**wwaReceive**

- C Corrects problems associated with coordination of followup/cancel/clear WWA products.
- C wwa\_nwr has the correct environment when launched from wwaReceive.

**wwa\_nwr**

- C Allows for tower-specific MRD codes in order to facilitate WWA updates.
- C Corrects shift in time phrases.

**wwainj**

- C Corrects problems associated with issued/unissued products being headlined in the ZFP and SAF.
- C Corrects problems which cause bogus headlines to appear in the ZFP and SAF products.

**wafd**

- C Corrects problem with Watches/Warnings/Advisories not appearing in afd product.

## PROCEDURE

### A. WWA Patch Installation Procedure

The patch file ("wwa50.tar.Z") must be downloaded from the NOAA1 server and unbundled to extract the installation scripts and the new executables. The installation script will perform the following functions:

- C Original executables will be backed up as "/awips/adapt/ifps/bin/name.50" on ds1, where name is the name of the executable.
- C The MHS will be stopped and restarted after "readenv.sh" in "/awips/fxa/bin" is corrected (The MHS will be down for less than 15 seconds).
- C The patch log ("/awips/PatchLog") on ds1 will automatically be updated.

1. At a workstation, open a telnet window and log in as **awipsusr**, and remote log in to ds1 by typing:

```
rlogin ds1 -l root
```

2. Change to the "/awips/adapt" directory by entering the command:

```
cd /awips/adapt
```

3. Connect to the NOAA1 ftp server by entering the command:

```
ftp 165.92.30.15
```

4. Once connected, login as **anonymous** user.

5. Get the "wwa50.tar.Z" file by typing:

```
binary  
hash  
cd /pub  
get wwa50.tar.Z  
bye
```

6. Unbundle the "wwa50.tar.Z" file to get three script files ("install\_wwa50.sh", "RC.sh", and "PatchID.50.102"), two Structured Query Language (SQL) files ("wwa\_db\_50\_patch.sql" and "wwa\_db\_50\_patch\_undo.sql"), and five executables ("wwa", "wwaReceive", "wwa\_nwr", "wafd", and "wwainj"). Type:

```
uncompress wwa50.tar.Z  
tar xvf wwa50.tar
```

**NOTE:** It is not necessary to call the NCF before performing the next step.

7. Install the new WWA software on ds1 and update the patch log file (“awips/PatchLog”) by typing: (**Note:** file “PatchID.50.102” contains the patch ID and is required to update the PatchLog file)

```
./RC.sh -i PatchID.50.102 install_wwa50.sh
```

8. Respond to the following question as indicated:

- a. You can view additional entries in patch log for MDL. Would you like to do this? [y/n]

**Action:** To proceed, please enter: `n` and a carriage return.

- b. Shall we proceed with the update of your files? [y/n]

**Action:** To proceed, please enter: `y` and a carriage return.

9. After the installation script (“install\_wwa50.sh”) is complete, answer the following questions:

- a. Do you wish to proceed with the patch log update? [y/n]

**Action:** To proceed, please enter: `y` and a carriage return.

- b. Please enter your name [Example: John Doe]:

**Action:** enter your name.

- c. Please enter your telephone number (with area code and ext):

**Action:** enter your phone number.

- d. Do you wish to update patch log with this line? [y/n]

**Action:** To complete the patch log update, enter: `y` and a carriage return.

10. Delete the tar file, SQL script (“wwa\_db\_patch.sql”) and install script (“install\_wwa50.sh”) by typing:

```
rm wwa50.tar
rm wwa_db_50_patch.sql
rm install_wwa50.sh
```

**NOTE:** Do not delete the “RC.sh” script. It may be required in part B.



11. Exit the root login and close the telnet window by the commands:

```
exit
exit
```

This completes the patch installation procedure.

## B. Patch Uninstall Procedure

To uninstall part or the complete patch and replace it with the original executable(s), perform the following procedure:

- NOTE:**
1. To uninstall a particular component of this patch, refer to the instructions in steps 2, 3, 4, 5, and/or 6.
  2. To uninstall the entire patch, refer to steps 2 through 7.

1. Open a telnet window, log in to ds1 as root by typing:

```
rlogin ds1 -l root
```

2. To remove the new version of “wwa”, type:

```
cd /awips/adapt/ifps/bin
mv ./wwa.50 ./wwa
chown ifps:awips ./wwa
chmod 777 ./wwa
```

3. To remove the new version of “wwaReceive”, type:

```
cd /awips/fxa/bin
mv ./wwaReceive.50 ./wwaReceive
chown fxa:fxalpha ./wwaReceive
chmod 555 ./wwaReceive
```

4. To remove the new version of “wwa\_nwr”, and undo the database changes type:

```
cd /awips/adapt/ifps/bin
mv ./wwa_nwr.50 ./wwa_nwr
chown ifps:awips ./wwa_nwr
chmod 777 ./wwa_nwr
su ifps
/awips/adapt/wwa_db_50_patch_undo.sql ccc (where ccc = WFO ID)
```

5. To remove the new version of “wwainj”, type:

```
cd /awips/adapt/ifps/bin
mv ./wwainj.50 ./wwainj
chown ifps:awips ./wwainj
chmod 777 ./wwainj
```

6. To remove the new version of “wafd”, type

```
cd /awips/adapt/ifps/bin
mv ./wafd.50 ./wafd
chown ifps:awips ./wafd
chmod 777 ./wafd
```

7. Perform this step only if steps 3 thru 7 have been performed to remove the entire patch.

```
cd /awips/adapt
./RC.sh -r PatchID.50.102
```

8. Answer the following questions as indicated:

- a. Do you wish to continue? [y/n]

**Action:** To proceed, please enter: **y** and a carriage return.

- b. You can view additional entries in the patch log for MDL. Would you like to do this? [y/n]

**Action:** To proceed, please enter: **n** and a carriage return.

- c. Do you wish to proceed with the patch log update? [y/n]

**Action:** To proceed, please enter: **y** and a carriage return.

- d. Please enter your name [Example: John Doe]:

**Action:** enter your name.

- e. Please enter your telephone number (with area code and ext):

**Action:** enter your phone number.





- f. Do you wish to update patch log with this line? [y/n]

**Action:** To complete the patch log update, enter: **y** and a carriage return.

9. Exit the root login and close the telnet window by typing:

```
exit  
exit
```

This completes the patch uninstallation procedure.

## REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record according to instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and appendix I. A sample A-26 form is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Perform modification I.A.W. AWIPS Software Patch Modification Note 16
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Upgrade System Software with patch P50_MDL_A100102
17a	Mod. No.	SP16

Signed by John McNulty

John McNulty  
Chief, Maintenance, Logistics, and Acquisition Division

## ATTACHMENT A

WS FORM A-26 (4/94)		WS FORM A-26 (4/94)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE				Document Number <b>G 49978</b>					
<b>ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD</b>															
<b>General Information</b>		1. Open Date <b>2 / 20 / 01</b>		Time <b>0900</b>		2. Initials <b>JMM</b>		3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		4. Close Date <b>2 / 20 / 01</b>		Time <b>1000</b>			
5. Description		<b>Fix problems with R5.0 WWA software by installing AWIPS Patch Number P50_MDL_A100102 I.A.W. AWIPS Software Patch Mod Note 16</b>													
<b>Equipment Information</b>		6. Station ID <b>CTP</b>		7. Equipment Code <b>AWIPS</b>		8. Serial Number <b>001</b>		9. TM <b>M</b>		10. AT <b>M</b>		11. How Mal. <b>999</b>			
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="text"/>		b. Logistics Delay <input type="text"/>		Partly Operational		c. All Other <input type="text"/>		d. Logistics Delay <input type="text"/>		Not Operational <input type="text"/>		e. All Other <input type="text"/>	
<b>13. Parts Failure Information</b>														<b>14. Work Load Information</b>	
Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.	Type	Staff Hrs.						
1								a. Routine							
2								b. Non-routine							
3								c. Travel							
4								d. Misc.	<b>1:00</b>						
5								e. Overtime							
<b>Miscellaneous Information</b>		15. Maintenance Comments <b>Installed AWIPS Software Patch Number P50_MDL_A100102 I.A.W. AWIPS Software Patch Mod Note 16</b>										16. Initials <b>JMM</b>			
17. SPECIAL PURPOSE REPORTING		a. Mod. No. <b>SP16</b>		b. Mod./Act./Deact.Date <b>2/20/01</b>		c.		d.		e.					
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN		Vendor Part Number (New Part)				Serial Number (Old Part)		Serial Number (New Part)					